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NOTICE OF ALLOWANCE AND FEE(S) DUE

24325 7590 PATENT GROUP 2N 01/29/2009

EXAMINER
YOUNG NATASHA E

PAPER NUMBER

ART UNIT 1797 DATE MAILED: 01/29/2009

JONES DAY NORTH POINT 901 LAKESIDE AVENUE CLEVELAND, OH 44114

LEVELAND, OH 44114

 APPE.CATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFREMATION NO.

 10/583.753
 09/18/2006
 Alfred Haas
 97590/600154
 8371

TITLE OF INVENTION: DEVICE AND METHOD FOR PRESSURE AND FLOW CONTROL IN PARALLEL REACTORS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	04/29/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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901 LAKESIDE CLEVELAND,							(Depositor's name)
			-				(Signature)
							()
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹		RNEY DOCKET NO.	CONFIRMATION NO.
10/583,753 TITLE OF INVENTION	09/18/2006 : DEVICE AND METH	OD FOR PRESSURE A	Alfred Haas ND FLOW CONTROL IN	PARALLEL REA		975902600154 S	8371
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	S FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0		\$1055	04/29/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
YOUNG, N.	ATASHA E	1797	422-196000				
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT/ less an assignee is ident h in 37 CFR 3.II. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON	2. For printing on the (1) the names of up to or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent attorney or 2 registered patent attorney or 10 registered patent or 10 registered pa	o 3 registered pater wely, le firm (having as a agent) and the nam orneys or agents. If printed. pe) patent. If an assign assignment.	memb es of u no nan	p to p to get is 3 dentified below, the d	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual Co	orporati	ion or other private gro	oup entity Government
4a. The following fee(s): Issue Fee Publication Fee (N Advance Order - #	o small entity discount p		b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Dep	rd. Form PTO-2038	is atta	iched.	shown above) ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	is. See 37 CFR 1.27.	b. Applicant is no los				
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Authorized Signature				Date			
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This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but firginia 22313-1450. DC 13-1450.	FR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or 1.14. This collection is es depending upon the indi the Chief Information Offic COMPLETED FORMS T	retain a benefit by t stimated to take 12 i vidual case. Any co er, U.S. Patent and O THIS ADDRESS	he pub minuter mment Trader i. SEN	lic which is to file (and is to complete, including its on the amount of the nark Office, U.S. Dep D TO: Commissioner	I by the USPTO to process) ig gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,753	09	18/2006	Alfred Haas	975902600154	8371
24325	7590	01/29/2009		EXAM	UNER
PATENT GROUP 2N			YOUNG, N	ATASHA E	
JONES DAY				ART UNIT	PAPER NUMBER
NORTH POINT 901 LAKESIDE	AVENUE			1797 DATE MAILED: 01/29/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 197 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 197 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/583,753	HAAS ET AL.				
Examiner	Art Unit				
NATASHA VOLING	1797				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence addressAll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to amendments filed on December 15, 2008.
- The allowed claim(s) is/are 56-90,102-106,113-115 and 117-120.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - - 1. T Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 10/07/2008
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance

Application/Control Number: 10/583,753

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DETAILED ACTION

Allowable Subject Matter

Claims 56-90, 102-106, 113-115, and 117-120 are allowed.

The prior art references do not disclose or suggest the claimed inventions.

Regarding claim 56, Bergh et al discloses device for the parallel conduct or study of chemical reactions (see Abstract), comprising the following components: (a) at least two spatially separated reaction spaces (600), each of which has an input side and an output side; and (b) on the reaction space input side, at least one common educt feed (510) for the reaction spaces according to (a), or for subsets of them.

The prior art reference does not disclose or suggest the limitation of (d) on the reaction space output side, at least one connection per reaction space to at least one holding gas feed common to all the reaction spaces, or subsets of them and (e) on the reaction space output side, and downstream of the connection to the holding gas feed according to (d) in the product flow direction, at least one restrictor per reaction space.

Regarding claim 72, Bergh et al discloses device for the parallel conduct or study of chemical reactions (see Abstract), comprising the following components: (a) at least two spatially separated reaction spaces (600), each of which has an input side and an output side; and (b) on the reaction space input side, at least one common educt feed (510) for the reaction spaces according to (a), or for subsets of them.

The prior art reference does not disclose or suggest the limitation of (d) on the reaction space output side, at least one connection per reaction space to at least one Application/Control Number: 10/583,753

Art Unit: 1797

holding gas feed common to all the reaction spaces, or subsets of them; (d') on the reaction space output side, at least one connection per reaction space to at least one control fluid common to all the reaction spaces; and (e) on the reaction space output side, and downstream of the connection to the holding gas feed according to (d) in the product flow direction, at least one restrictor per reaction space.

Regarding claim 102, Bergh et al discloses device for the parallel conduct or study of chemical reactions (see Abstract), comprising the following components: (a) at least two spatially separated reaction spaces (600), each of which has an input side and an output side; and (b) on the reaction space input side, at least one common educt feed (510) for the reaction spaces according to (a), or for subsets of them

The prior art reference does not disclose or suggest the limitation of (b") on the reaction space input side and as part of the connections of the common educt liquid feed to the reaction spaces according to (a), at least one restrictor per connection; (e') on the reaction space output side and downstream of a connection to an optional control fluid feed, in the flow direction of at least one reaction product, at least one gas-liquid separation unit per reaction space; (e") associated with each gas-liquid separation unit, a connection for discharging at least one reaction gas; (e"') per connection according to (e") and via a node/mixing point, a connection to a common holding gas feed; and (e"'') after the nodes according to (e"''), downstream in the flow direction of the reaction gas, but before an optional analysis unit, at least one restrictor per connection according to (e"), configured to keep pressure constant in all the reaction spaces even if volume fluctuations occur in the reaction spaces.

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Regarding claim 113, Bergh et al discloses a device for the processing or testing of at least one chemical reaction, comprising: a unit for the controlled discharge of product fluid out of at least one high pressure end reaction vessel (600), wherein said reaction vessel is in fluid connection, with a collecting area (520) that is at a lower pressure than the high pressure reaction vessel (see column 13, line 27 through column 14, line 6 and figure 1A).

Bergh et al does not disclose a fluid separation unit and said fluid separation unit is in fluid connection, via a discharge valve, with a collecting area.

Karlsson et al discloses that the plurality of effluents generated are further process by, for example, separating the effluents (see column 3, lines 53-61 and column 8, lines 29-57), a sample valve (20) is at a reduced pressure as compared to the pressure in lines (16) (see column 7, lines 47-67), and the selected effluent is directed to a processing device (28), which is interpreted as a collecting area (see column 8, lines 29-57).

The prior art references do not disclose or suggest a device wherein the collecting area for the product fluid is a fluid separation unit located at the low pressure end with respect to the high pressure end fluid separation unit.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See Sugarman et al (US 5,503,805), Hindsgaul et al (US 6,723,235), and Chatelain et al (US 6,623,703).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATASHA YOUNG whose telephone number is 571-270-3163. The examiner can normally be reached on Mon-Thurs 7:30 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Griffin can be reached on 571-272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/N. Y./ Examiner, Art Unit 1797

/Walter D. Griffin/ Supervisory Patent Examiner, Art Unit 1797